GENERAL® INFRARED THERMOMETERS

Precision, Specialty and Innovation

Infrared Thermometers

Cold or hot . . . it matters not . . . to General's extended family of point-and-shoot infrared thermometers. From our affordable IRT105 to our Ultra-High Temperature IRT5000, there's an IRT with your name—and application—on it. Just pick a Distance-to-Spot ratio and a temperature range and begin firing away.

IRT105

IRT207

IRT206

IRTC50

SPECIFICATIONS

Model #	Thermo Seeker IRT105	Heat Seeker™ IRT207	Heat Seeker™ IRT206	Thermo Seeker IRTC50	
Name	6:1 Pocket Infrared Thermometer	8:1 Mid-Range Infrared Thermometer	8:1 Mid-Range Infrared Thermometer	Energy Audit IR Thermometer/Scanner with Star Burst Laser Targeting	
Temperature Range	-40° to 482°F (-40° to 250°C)	-4° to 604°F (-20° to 327°C)	-4° to 604°F (-20° to 327°C)	-40° to 428°F (-40° to 220°C)	
Distance to Spot Ratio	6:1	8:1	8:1	8:1	
Resolution	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	
Accuracy	±2% of reading or ±3° (F or C), whichever is greater	±2% of reading or ±4°F/±2°C (whichever is greater)	±2% of reading or ±4°F/±2°C (whichever is greater)	±2% of reading or ±3°F (2°C) (when T>32°F) ±3% of reading or ±5°F (3°C) (when T ≤32°F)	
Emissivity	Adjustable	Pre-set to 0.95	Pre-set to 0.95	Pre-set to 0.95	
Display	Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD	
Laser Targeting	Yes	Yes	Yes	Yes	
Auto Power Off	Yes	Yes	Yes	Yes	
Other Important Features	Measurement Lock Min/Max Memory + Data Hold + Avg + Dif	Measurement Lock	Measurement Lock	Data Hold Green/red/blue indication of normal/hot/cold Selectable setpoint band width Star Burst Laser Targeting Data Hold	
Accessories Included	Wrist strap Battery User's manual, Warranty	9V battery User's manual, Warranty	9V battery User's manual, Warranty	9V battery User's manual, Warranty	

Infrared Thermometers

SPECIFICATIONS

IRT657	IRT670	IRT675	IRT5000	Model #
12:1 Wide-Range Infrared Thermometer with Star Burst Laser Targeting	30:1 High-Performance Ultra Wide-Range Infrared Thermometer	50:1 High-Performance Ultra Wide-Range Infrared Thermometer	100:1 Ultra-High Temperature Infrared (IR) Thermometer with Dual Laser Target Tracking System	Name
-40° to 1076°F (-40° to 580°C)	-25.6° to 1400°F (-32° to 760°C)	-26° to 2372° F (-32° to 1300°C)	392° to +4352°F (200° to +2400°C)	Temperature Range
12:1	30:1	50:1	100:1	Distance to Spot Ratio
0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	Resolution
±3°F(2°C), or ±2% of reading	±5°F (±3°C) from -25.6° to -4°F (-32° to -20°C); ±3°F (±2°C) from 4° to 212°F (-20° to 100°C); ±2% from 212° to 1400°F (100° to 760°C)	±5°F (±3°C) from -25.6° to -4°F (-32° to -20°C); ±3°F (±2°C) from 4 to 212°F (-20° to 100°C) ±2% from 212° to 2372°F (100° to 1300°C)	±2% of reading	Accuracy
Pre-set to 0.95	Adjustable	Adjustable	Adjustable	Emissivity
Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD	Display
Yes	Yes	Yes	Yes	Laser Targeting
Yes	Yes	Yes	Yes	Auto Power Off
Low Battery indication Over-range indication	High/Low Audible Alarm Min/Max/Avg + 10 Reading Memory	High/Low Audible Alarm Min/Max/Avg/ΔT + 10 Reading Memory	Measurement Lock Low Battery indication Over-range indication K-type probe included Stores 24 Measurement-Emissivity Pairs	Other Important Features
1 “9V” battery User’s manual Soft carrying pouch, Warranty	Carrying case, User’s manual, “9V” battery, Warranty	Carrying case, User’s manual, “9V” battery, Warranty	Magnet seat K type beaded thermocouple AA batteries, User’s manual Hard case, Warranty	Accessories Included

Infrared Thermometers

6:1 POCKET INFRARED THERMOMETER

Ideal for spot-checking the temperature of substances and surfaces from a distance. Perfect for food processing, electrical troubleshooting, and automotive and HVAC equipment maintenance.

CE

IRT105

FEATURES

- Optimized measurement range
- Accuracy of ±3°F or 2% max
- Adjustable emissivity
- Fast response time
- Max/Min memory + data hold + auto power off
- Selectable °F or °C unit
- Large LCD
- Separate batteries for thermometer and laser
- Small and light easy to use

SPECIFICATIONS

- Temperature Measurement Range: -40° to 482°F (-40° to 250°C)
- Measurement Accuracy: ±3°F (2°C) or 2% of reading (whichever is greater) above 32°F (0°C); ±5°F (3°C) or 2% of reading (whichever is greater) below 32°F
- Distance-To-Spot (D:S) Ratio: 6:1
- Emissivity: Adjustable from 0.1 to 1
- Response Time: 500 msec for 95% response
- Laser Class/Power/Wavelength: Class II/<1mW/630 to 660nm
- Power Source: 2 “CR2032” Li-ion batteries
- Thermometer Battery Life: 50 hours, typical
- Operating Temperature: 32° to 104°F (0° to 40°C) @<75% relative humidity
- Dimensions: 4.25 x 2.05 x 0.98 in. (108 x 52 x 25mm)
- Weight: 1.41 oz. (40g)

Includes:
- Wrist strap
- Batteries
- User’s manual

UPC	NO.
20196 1	**IRT105**

THE SEEKER™ 8:1 MID-RANGE INFRARED THERMOMETER

Ideal for most applications in HVAC/R, plumbing and heating, electrical, automotive and other industrial jobs.

CE RoHS

IRT207

FEATURES

- Rugged and ergonomic design
- Backlit LCD display
- Sighting laser can be turned off
- °F/°C selectable
- CE, RoHS, WEEE approved

SPECIFICATIONS

- Distance to Spot (D:S) ratio: 8:1
- Range: -4° to 604°F (-20° to 317°C)
- Emissivity: Fixed at 0.95
- Resolution: 0.5°F / 0.5°C
- Measurement Accuracy: ±4°F or 2%
- Operating temperature: 32° to 122°F (0° to 50°C)@ 10 to 90% RH
- Power Source: 1 “9V” battery (included)

Includes:
- Battery
- User’s manual

UPC	NO.
01403 5	**IRT207**

8:1 MID-RANGE INFRARED THERMOMETER

Ideal for most applications in HVAC/R, plumbing and heating, electrical, automotive and other industrial jobs.

CE RoHS

IRT206

FEATURES

- Rugged and ergonomic design
- Backlit LCD display
- Sighting laser can be turned off
- °F/°C selectable
- CE, RoHS, WEEE approved

SPECIFICATIONS

- Distance to Spot (D:S) ratio: 8:1
- Measurement Range: -4° to 604°F (-20° to 317°C)
- Measurement Accuracy: ±4°F or 2%
- Emissivity: Fixed at 0.95
- Resolution: 0.5°F / 0.5°C
- Measurement Accuracy: ±4°F or 2%
- Operating Temperature: 32° to 122°F (0° to 50°C)@ 10 to 90% RH
- Power Source: 1 “9V” battery (included)

Includes:
- Battery
- User’s manual

UPC	NO.
02060 9	**IRT206**

ENERGY AUDIT IR THERMOMETER/SCANNER WITH STAR BURST LASER TARGETING

Ideal for energy auditors, building inspectors, HVAC technicians, electricians, manufacturing technicians, food processing inspectors and homeowners.

FEATURES

- User selectable 3-temperature set-point band options of 1°, 5° and 10°F (0.5°, 3°, 5.5°C)
- Red or blue light and fast or slow buzzer signal when the target temperature is above or below the reference temperature ± the set-point
- Fast response time of 0.5 seconds
- Unique Star Burst laser targeting system helps approximate the target spot size
- Large backlit LCD
- Automatic temperature "hold" when the trigger is released
- Display and backlight turn off after 15 seconds of inactivity
- Auto-power off after 60 seconds of inactivity

SPECIFICATIONS

- ♦ Measurement Range: -40° to 428°F (-40° to 220°C)
- ♦ Measurement Accuracy: ±4°F/C or ±2% of reading above 32°F (0°C); ±3°F/C or ±3% of reading below 32°F (0°C)
- ♦ Resolution: 1°F (0.5°C)
- ♦ Distance to Spot Ratio: 8:1
- ♦ Emissivity: Fixed at 0.95
- ♦ Response Time: 0.5 seconds
- ♦ Operating Temperature: 32° to 104°F (0° to 40°C)
- ♦ Storage Temperature: -20° to 122°F (-29° to 50°C)
- ♦ Operating Humidity: 10 to 90%
- ♦ Dimensions: 5.31 x 1.65 x 6.81in. (135 x 42 x 173mm)
- ♦ Weight: 6.24 oz. (117g) without battery
- ♦ Power Source: 1 "9V" battery (included)

Includes: • Battery
• User's manual

UPC	NO.
01442 4	**IRTC50**

CE RoHS

IRTC50

12:1 WIDE-RANGE INFRARED THERMOMETER

Ideal for isolating overheated electrical components and hot spots, troubleshooting HVAC/R and automotive systems, or performance-testing motors and boilers.

FEATURES

- Wide measurement range of -40° to 1076°F (-40° to 580°C)
- Star Burst Laser Targeting helps in approximating spot size
- Accuracy of ±3°F (2°C) or ±5°F (3°C), depending on temperature
- Large (1.6 in. diagonal) backlit LCD

SPECIFICATIONS

- ♦ Temperature Measurement Range: -40° to 1076°F (-40° to 580°C)
- ♦ Distance-To-Spot (D:S) Ratio: 12:1
- ♦ Emissivity: Fixed at 0.95
- ♦ Measurement Accuracy:±3°F (2°C) or ±2% of reading above 32°F (0°C); ±5°F (3°C) or ±2% of reading below 32°F (0°C)
- ♦ Response Time: 250 msec for 95% response
- ♦ Display Size and Type: 1.6 in. (40.6mm) diagonal LCD
- ♦ Operating Temperature: 32° to 104°F (0° to 40°C) @<75% relative humidity (RH)
- ♦ Storage Temperature: -4° to 140°F (-20° to 60°C) @<85% RH
- ♦ Dimensions: 6.9 x 3.6 x 1.5 in. (175 x 91.5 x 38mm)
- ♦ Weight: 5.93 oz. (168g)
- ♦ Power Source: 1 "9V" battery (included)

Includes: • Carrying case
• Battery
• User's manual

UPC	NO.
01480 6	**IRT657**

IRT657

Infrared Thermometers

IRT670

30:1 HIGH-PERFORMANCE ULTRA WIDE-RANGE INFRARED THERMOMETER

Suitable for the most demanding industrial applications, including furnaces and heat exchangers.

FEATURES

- °F/°C and laser on/off switches
- High, low audible alarms
- Large backlit LCD display
- Min/Max/Avg + 10 reading memory
- Measurement lock mode
- Low battery indication
- Auto power off
- CE, RoHS, WEEE approved

SPECIFICATIONS

- Distance to Spot (D:S) Ratio: 30:1
- Emissivity: Adjustable from 0.1 to 1.0
- Measurement Range: -25.6° to 1400°F (-32° to 760°C)
- Measurement Accuracy: of 77°F/25°C) ±5°F (±3°C) from -25.6° to -4°F (-32° to -20°C); ±3°F (±2°C) from -4° to 212°F (-20° to 100°C); ±2% from 212° to 1400°F (100° to 760°C)
- Resolution: 0.1°F (0.1°C)
- Response Time: 0.5 seconds
- Operating Temperature: 32° to 122°F (0° to 50°C) @10 to 90%RH
- Auto Power Off: After 6 seconds of inactivity
- Battery Life: 16 hours
- Dimensions: 7.8 x 6.5 x 2 in. (200 x 166 x 51mm)
- Weight: 10.6 oz. (300g)
- Power Source: 1 “9V” battery (included)

Includes: • Carrying case • Battery • User’s manual

UPC	NO.
40670 0	**IRT670**

IRT675

50:1 HIGH-PERFORMANCE ULTRA WIDE-RANGE INFRARED THERMOMETER

Ideal for use in hazardous, superheated, subcooled, and other challenging industrial applications.

FEATURES

- °F/°C and laser on/off switches
- High, low audible alarms
- Large backlit LCD display
- Min/Max/Avg/ΔT + 10 reading memory
- Measurement lock mode
- Low battery indication
- Auto power off
- CE, RoHS, WEEE approved

SPECIFICATIONS

- Distance to Spot (D:S) Ratio: 50:1
- Emissivity: Adjustable from 0.1 to 1.0
- Measurement Range: -25.6° to 2372°F (-32° to 1300°C)
- Measurement Accuracy: ±5°F (±3°C) from -25.6° to -4°F (-32° to -20°C); ±3°F (±2°C) from -4° to 212°F (-20° to 100°C); ±2% from 212° to 2372°F (100° to 1300°C)
- Resolution: 0.1°F (0.1°C)
- Response Time: 0.5 seconds
- Operating Temperature: 32° to 122°F (0° to 50°C), 10 to 90%RH
- Auto Power Off: After 6 seconds of inactivity
- Battery Life: 16 hours
- Dimensions: 7.8 x 6.5 x 2 in. (200 x 166 x 51mm)
- Weight: 9.9 oz. (280g)
- Power Source: 1 “9V” battery (included)

Includes: • Carrying case • Battery • User’s manual

UPC	NO.
40677 9	**IRT675**

100:1 ULTRA-HIGH TEMPERATURE INFRARED (IR) THERMOMETER WITH DUAL LASER TARGET TRACKING SYSTEM

Ideal for applications in power generation and transmission, maintenance, foundry operations, industrial site inspection, manufacturing MRO, and fire fighting operations.

IRT5000

FEATURES

- 100:1 distance to spot (D:S) ratio
- Stores up to 24 data points
- Ultra-high temperature operation up to 4352°F (2400°C)
- High/Low alarm levels
- Fast response time of 0.5 seconds
- Min/Max/Dif memory
- Dual lasers to track target/spot size

SPECIFICATIONS

- ♦ Distance to Spot (D:S) Ratio: 100:1
- ♦ Measurement Range: 392° to 4352°F (200° to 2400°C)
- ♦ Measurement Accuracy: ±2% of reading
- ♦ Measurement Range with "K" Type Thermocouple: -83.2° to 2552°F (-64° to 1400°C)
- ♦ Accuracy with "K" Type Thermocouple: ±1% of reading
- ♦ Emissivity: Adjustable from 0.10 to 0.95
- ♦ Battery Life: Approximately 140 hours
- ♦ Dimensions: 2.4 x 8.2 x 9.2 in. (61 x 208 x 234mm)
- ♦ Weight: 16.8 oz. (475g)
- ♦ Power Source: 2 "AA" batteries (included)

Includes: • 1 "K" Type Bead Thermocouple • Batteries • User's manual

UPC	NO.
01479 0	**IRT5000**

50:1 DATA LOGGING HIGH-RANGE INFRARED THERMOMETER

Ideal for use in superheated and subcooled applications.

CE RoHS

IRT500DL

FEATURES

- Very high D:S ratio
- Adjustable emissivity
- Large backlit dual LCD
- Selectable temperature unit
- Measurement lock mode
- Min/Max/Avg + 10 reading memory
- Auto power off
- Accepts Type K thermocouple
- Outputs data logs via USB
- Tripod mount
- CE and RoHS approved

SPECIFICATIONS

- ♦ Distance to Spot (D:S) Ratio: 50:1
- ♦ Measurement Range: -58° to 1832°F (-50° to1000°C)
- ♦ Measurement Accuracy: ±5°F (3°C) from -58° to -4°F (-50° to -20°C); ±3°F (2°C) from -4° to 212°F (-20° to 100°C); ±2% from 212° to 1832°F (100° to 1000°C)
- ♦ Emissivity: Adjustable from 0.1 to 1 in 0.01 steps
- ♦ Response Time: 0.5 seconds
- ♦ Auto Power Off: After 30 seconds of inactivity
- ♦ Operating Temperature: 32° to 122°F (0° to 50°C) @10 to 90% RH
- ♦ Dimensions: 7.9 x 5 x 1.9 in. (200 x 127 x 47mm)
- ♦ Weight: 11.7 oz. (330g)
- ♦ Power Source: 1 "9V" battery (included)

Includes: • Data logging/interface software • 1 Type K thermocouple • Molded hard case • Battery • USB cable • User's manual

UPC	NO.
52046 0	**IRT500DL**

12:1 WIDE-RANGE INFRARED THERMOMETER WITH ADJUSTABLE EMISSIVITY, MEMORY AND ALARM

Ideal for HVAC/R and other general-purpose industrial applications.

CE RoHS

IRT653

FEATURES

- Adjustable emissivity
- High/Low audible alarm
- Large backlit LCD
- Selectable temperature unit
- Measurement lock mode
- Min/Max/Avg/ΔT+ 10 reading memory
- Auto power off
- CE, RoHS, WEEE approved

SPECIFICATIONS

- ♦ Measurement Range: -25° to 999°F (-32° to -535°C)
- ♦ Measurement Accuracy: ±5°F (±3°C) from -25° to -4°F (-32° to -20°C); ±3°F (±2°C) from -4° to 212°F (-20° to 100°C); ±2% from 212° to 999°F (100° to 535°C)
- ♦ Resolution: 0.1°F (0.1°C)
- ♦ Distance to Spot (D:S) ratio: 12:1
- ♦ Emissivity: Adjustable from 0.1 to 1 in 0.01 steps
- ♦ Response Time: 0.5 seconds
- ♦ Auto Power Off: After 6 seconds of inactivity
- ♦ Operating Temperature: 32° to 122°F (0° to 50°C) @10 to 90%RH
- ♦ Battery Life: 16 hours
- ♦ Dimensions: 6.69 x 5.23 x 1.77 in. (170 x 133 x 45mm)
- ♦ Weight: 6.6 oz. (187g) Approx.
- ♦ Power Source: 1 "9V" battery (included)

Includes: • Soft carrying case • Battery • User's manual

UPC	NO.
40653 3	**IRT653**

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